

MODIFICATION TO TECHNICAL STANDARD OPERATING PROCEDURE
HIGH VOLUME INDOOR DUST SAMPLING AT RESIDENCES FOR
DETERMINATION OF RISK-BASED EXPOSURE TO METALS
SOP NO. ISSI-VBI70-04, Rev. 0, June 28, 1999
VASQUEZ BLVD/I-70 PHASE III SAMPLING

Sec. 3.2.1 Sampling Apparatus

- Catch Bottle

Change specification from 500-mL FEP bottle to "250-mL polyethylene bottle."

Sec. 3.3 Preparation and Calibration

- Pressure Gages

The calibration and zeroing procedure is modified as follows in accordance with the manufacturers recommended practice (CS3, Inc. Operation Manual, 1998):

"Pressure gages shall be calibrated by the manufacturer at least once per year, or more often if the gage does not zero or sticks. The pressure gage shall be zeroed following decontamination and prior to use. To zero the gage, pressurize the gage by turning the cyclone on, then turn it back off and verify that the gage returns to zero. If it does not, adjust the zero using a screwdriver until the gage reads zero and repeat the test. If the gage does not zero, check the fittings and repeat the test. If the gage does not zero after checking the fitting, the gage will require calibration prior to use."

Sec. 3.5 Sampling Locations within the Residence

Based on observations during the first week of dust sampling, sampling two templates per room may not be possible due to the room size and furniture present, and/or may not be necessary to obtain the required dust volume. Therefore, the second paragraph of this section is modified as follows:

"One or two templates will be collected per living space, depending on the available area within each living space and the volume of dust collected. Initially, one template will be collected from each living space. The mass of dust will then be determined. If the mass of dust exceeds five grams, adequate volume will have been collected and the sampling will be complete at that residence. If the mass of dust from one template per living area does not exceed five grams, a second template will be collected from rooms with adequate exposed flooring for a second template."

Sec. 3.7 Decontamination - Sampler Cleaning

Disposable gloves used on the project are not composed of rubber. The third sentence of the first paragraph is modified as follows:

"Place a gloved hand on the bottom of the cyclone and alternate closing and opening the cyclone for 10 seconds to free any loose material adhering to the walls of the cyclone and tubing."

Due to the importance of completely drying the sampler prior to use, drying may be accomplished using a clean laboratory wipe; the fifth sentence of the second paragraph is modified as follows:

"Allow all equipment to air dry or dry all surfaces thoroughly using a clean laboratory wipe."

Sec. 6.2 Field QC Samples

Blind Stand (Reference Material Samples)

Modify last sentence as follows:

"These QC samples will be submitted blindly to the laboratory at a frequency determined by the Remedial Project Manager."

USEPA REGION 8 APPROVAL:

Signature/Title

Date

[Signature] / RPM
[Signature] / Toxicologist

11/12/99
11/15/99